

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

### Lesson 1 and 2 Quiz Study Guide

#### 1. Match each property to its example:

Associative Property C

Commutative Property D

Identity Property of Addition E

Identity Property of Multiplication A

Distributive Property B

A.  $15 \cdot 1 = 15$

B.  $4(6x - 15) = 24x - 60$

C.  $3 + (2 + 5) = (3 + 2) + 5$

D.  $18 + 5 + 2 = 5 + 18 + 2$

E.  $153 + 0 = 153$

#### Simplify each using the distributive property:

2.  $6(h - 4) = 6(h + -4)$   
 $6 \cdot h + 6(-4)$   
 $6h + -24 = 6h - 24$

3.  $-3(x + 8) = -3 \cdot x + (-3)(8)$   
 $-3x + -24 = -3x - 24$

4.  $2(7n - 11) = 2(7n + -11) = 2 \cdot 7n + 2(-11)$   
 $14n + -22$   
 $14n - 22$

5.  $-10(-a + 5) = -10(-a) + -10(5)$   
 $= 10a + -50$   
 $= 10a - 50$

6. Show how you could use the Distributive Property to multiply  $3(107)$ .

$$\begin{array}{r} 3(100) + 3(7) \\ \hline 300 + 21 \\ \hline 321 \end{array}$$